zenith

TheaterLite™
DXG-210

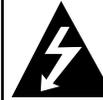operating guide

⚡ WARNING ❗
RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING:

TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

POWER CORD POLARIZATION:
CAUTION: This product is equipped with a three-wire grounding type alternating current line plug. This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the three-wire ground type plug.

NOTE TO CABLE/TV INSTALLER (when projector is connected to tuner):

This reminder is provided to call the cable TV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

REGULATORY INFORMATION:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION:

Do not attempt to modify this product in any way without written authorization from Zenith Electronics Corporation. Unauthorized modification could void the user's authority to operate this product.

Important safeguards for you and your new product

Your product has been manufactured and tested with your safety in mind. However, improper use can result in potential electrical shock or fire hazards. To avoid defeating the safeguards that have been built into your new product, please read and observe the following safety points when installing and using your new product, and save them for future reference.

Observing the simple precautions discussed in this booklet can help you get many years of enjoyment and safe operation that are built into your new product.

This product complies with all applicable U.S. Federal safety requirements, and those of the Canadian Standards Association.

1. Read Instructions
All the safety and operating instructions should be read before the product is operated.

2. Follow Instructions
All operating and use instructions should be followed.

3. Retain Instructions
The safety and operating instructions should be retained for future reference.

4.Heed Warnings
All warnings on the product and in the operating instructions should be adhered to.

5. Cleaning
Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

6. Water and Moisture
Do not use this product near water - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.

7.Accessories
Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

8. Transporting Product
A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

PORTABLE CART WARNING

9. Attachments
Do not use attachments not recommended by the product manufacturer as they may cause hazards.

10. Ventilation
Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

11. Power Sources
This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

12. Line-Cord Polarization
This product is equipped with a 3-wire grounding type alternating-current line plug. This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the three-wire ground-type plug.

13. Power-Cord Protection
Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
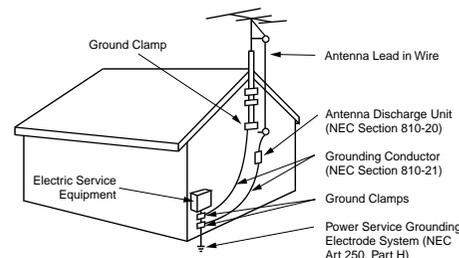

(Continued from previous page)

14. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code (U.S.A.), ANSI/ NFPA 70 provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Example of Grounding According to National Electrical Code Instructions

Ground Clamp
Antenna Lead in Wire
Antenna Discharge Unit (NEC Section 810-20)
Grounding Conductor (NEC Section 810-21)
Electric Service Equipment
Ground Clamps
Power Service Grounding Electrode System (NEC Art 250, Part H)

NEC - National Electrical Code

15. Lightning

For added protection for this product (receiver) during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

16. Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

17. Overloading

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

18. Object and Liquid Entry

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

19. Servicing

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

20. Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

a. If the power-supply cord or plug is damaged.
b. If liquid has been spilled, or objects have fallen into the product.
c. If the product has been exposed to rain or water.
d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
e. If the product has been dropped or the cabinet has been damaged.
f. If the product exhibits a distinct change in performance.

21. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

22. Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

23. Wall or Ceiling Mounting

The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

24. Heat

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

Contents

1. Before you start

Thank you for choosing a Zenith projector

Your Zenith projector will display high brightness images with vivid colors, even under normal light conditions. As input for your presentation you can use CD-ROM, Photo CDs, Laser Disks, DVD, normal VCRs or computers. You can have multiple inputs connected simultaneously for a high impact multimedia presentation.

Thanks to the unique Graphical User Interface, the projector offers true plug-and-play operation.

1.1 Color coding for ease of use

All connectors, plugs and buttons on the product are color coded to make the connections and operation easy and intuitive. The following colors are used:

- **Computer** -gray (PC)
- **Video (Composite)** -yellow
- **S-video** -dark blue
- **Stand by** -red
- **Auto setup** -green

1.2 Accessories

Please take a few minutes to make sure that your Zenith projector contains all the necessary parts:
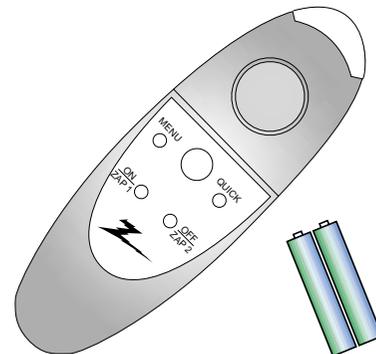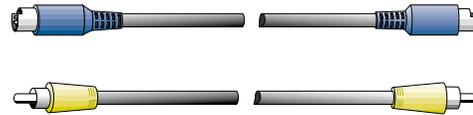
1.2.1 Video accessories
- Super-video cable
- Composite video cable

1.2.2 Other cables/accessories
- Power cable
- Remote control including batteries (type AAA/LR03)

1.2.3 Optional accessories
- Ceiling mount kit

1.3 Insert batteries in the remote control

Figure 5 shows the remote control with the battery lid removed. Slide off the battery lid and insert the batteries with the + and - poles correct. Slide the battery lid back on again.
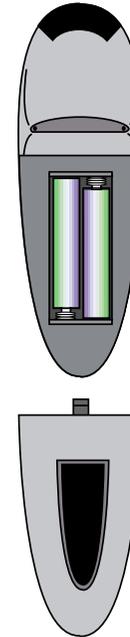
Figure 5 Inserting batteries in remote control

1.4 Connect projector to power supply

Plug in your projector. Do not plug it into a switched outlet. Your Zenith projector is designed to operate on standard current, 120-volt, 60 Hertz AC. Do not attempt to operate it on DC current.

2. Important information

The registration card or copy of invoice is your proof of purchase. Please make sure that the registration card is returned in order to get the warranty service you are entitled to.

NOTE! Please use caution when transporting the unit.

WARNING! Tampering with or opening the unit can be dangerous. For replacement of the lamp or service, please call 1-888-865-3026, toll free, 24 hours a day.

3. Connecting a computer to the projector

The procedure for connecting a computer to the projector is the same for all types of computers.

1. Make sure the computer, monitor and projector are switched off.

2. Identify the RGB out connector on the back of your computer (where you connect a monitor to the computer).

3. Connect the RGB output from the computer using a 15 pin VGA type cable (not included) to the connector on the projector labeled "monitor in".You can optionally use the gold BNC connectors to connect to your computer.

4. Turn on the projector and then the computer. The computer image should now be projected from the projector. If the computer's image is not displayed simultaneously on the monitor, see the attached section "what to do if".

4. Connecting a video source to the projector

The procedure for connecting a video source to the projector is the same for S-Video and Composite video.

SECAM, PAL N and PAL M modes are manually selected by pressing the "Green Button". If the right format is not found the first time, press again. The video format is stored separately for each connector.

1. Make sure that the video source and the projector are switched off.

2. Connect the video cable from the Video out connector of the video source to the correct video connector on the projector plug panel.

4. When all the connections are done and verified, switch on the video source and the projector.

5. The projector will now automatically display the pictures from the video source. If not, see the section 'What do I do if'.
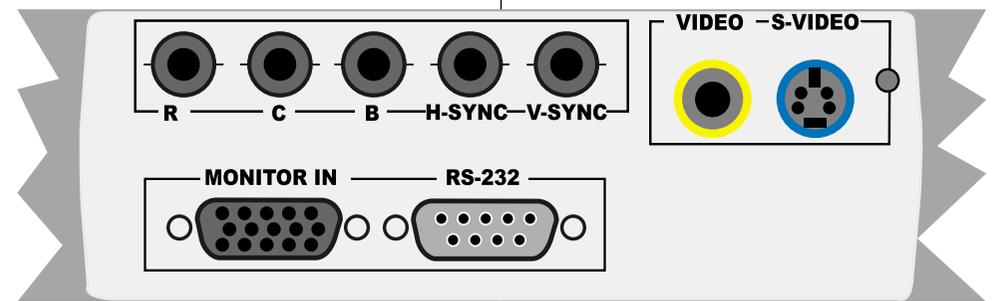
Figure 6 Connecting to video sources

5. Using Your Zenith projector

5.1 Different program modes for your Zenith projector

The projector has the following modes of operation:
- Stand-by mode
- Normal mode
- Quick mode
- Menu mode
- Pointer mode
- Blank mode

Stand-by mode (see section 5.3)
In stand-by mode the projector is turned off and can be turned on by using defined keys.

Normal mode
In normal mode a picture will be shown on the screen.

Quick mode (see section 6.2.3)
Quick mode is used with the interactive remote control (quick key). You assign functionality for the quick key on the remote control in the quick menu (see section 6.2.3). When clicking on the Quick key you will be able to switch between all the functions you have selected in this menu.

Menu mode
In menu mode the menu system is activated and you use the mouse pad and the mouse buttons on the remote control to navigate in the menu.

Pointer mode (see section 6.2.4)
In pointer mode you can move a pointer cursor on the screen by using the mouse function.

Blank mode (see section 6.2.4)
In blank mode the screen is blanked out (black).

5.2 Remote control

To access the Main Menu and control the varous image adjustments and utility functions of the projector

Point the remote control towards the projection screen. An infra-red beam bounces from the screen to an infra-red receiver on the projector.

Note!
Make sure nothing is blocking the IR receiver in front of projector located beside the lens, as this will prevent the communication between the remote control and the projector.

To ensure smooth operation, the combined distance from the remote control to the screen and back to the projector should not exceed 33 feet (10 m). If the distance via the screen is longer, you should point the remote control directly towards the IR receiver.
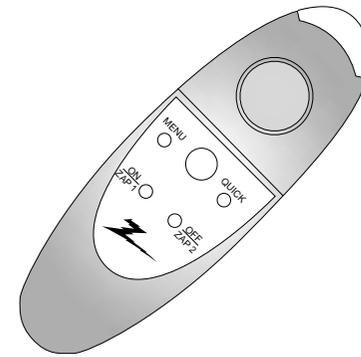
Figure 9: Remote control

The Remote control is very easy to operate. It has only six keys in addition to the pressure sensing mouse pad.
The six keys are:

Key underneath the control
Left mouse key

Small gray key
Interrupt/break an action (right mouse key)

Menu
The menu key gives access to the menu control functions. To move within the various menu functions, position the arrow cursor by pressing the sensitive mouse pad and click with the left mouse button which is located underneath the remote control.
If you are in menu mode and press the menu key you will return to normal mode.

Zap
The two zap keys can be programmed to perform an assigned function. To assign a function to the zap keys, select the Zap icon from the menu. The zap keys can be programmed to do the same function e.g. volume up/down. See section 6.2.4 for further explanations of the zap menu.

Quick
When pressing the Quick key you can switch between all selected functions for the Quick key. See section 6.2.3. for how to select functions for the Quick key.

5.3 Using the touch panel on the projector

Figure 10: The keys on the touch panel on the projector

The touch panel gives you direct access to the most important functions of the projector. The key functions are as follows:

Source
The projector has direct keys for four sources:

Functionality
- Computer (PC)
- Composite video
- S-video

Stand by
The stand by key will set the projector in stand by mode. To return to normal mode, press the Stand by key once more, or press the Menu key on the remote control.

Automatic set-up
The automatic set-up key will set up the projector with optimal settings for the connected source. If you want to do manual adjustments you can do this by using the menus (see section 6).

Brightness/Contrast
Controls the brightness and contrast of the image.

Saturation/Tint
The saturation key is to control the saturation of the image in PAL/SECAM mode. The tint key is to control the tint of the image when NTSC mode is chosen.

Note!
You can not access the screen menu system without the remote control.

5.4 Adjusting the height and angle of the projector

You can adjust the height and angle of the projector by adjusting the four small feet underneath the product.

Note!
The projector should never be left with an angle of more than 15 degrees over a long period of time. Doing so will shorten the lifetime of the lamp.

5.5 Aspect Ratio Selection

Aspect Ratio selection.

In this menu you can select the aspect ratio of 4:3 or 16:9.

6. Using the menus

6.1 The menu system

Main menu.

Menu with video input.

6.1.1 Main menu
The main menu is divided into two parts:
- Icons
- Help text

Icons
The icons illustrate a function and are grouped into groups with similar functionality. Clicking an icon activates it. Some icons have a direct function and some will activate a second level menu.

Help text
By moving the cursor over the icons the text area will give a short description of the icon.

Stand-by

The stand-by key will set the projector in stand-by mode. The lamp will turn off, and the fans will run for a little while cooling the projector before stopping. To return to normal mode, press the Menu key on the remote control.

Auto set-up

Auto set-up will do automatic set-up of the projector:

- Horizontal and vertical position
- Sampling clock
- Phase
- Chooses between available video formats and NTSC/PAL auto detection

Source

You can connect three different sources to the projector; one computer source, two video sources.
You select the source you want to use by clicking on the icon representing the source. Use the pressure-sensing pad on the remote mouse to move the mouse pointer to an icon and click the button (left mouse) underneath the remote mouse.

Set-up menu

In this menu you set up the projector with settings that will not be changed often, e.g. language or picture orientation.

Control panel

In this menu you can make adjustments for picture.

Removing the main menu

To remove the menu system, press the MENU key on the Remote control. You can also remove the menu by clicking the right mouse button (on the top of the remote control). The right mouse button will also function as cancel when in the menus.

The menu will disappear in 40 seconds.

Product information

Click on the product information icon for information about the product and support.

Press the main menu button again to exit this screen.

6.2 Set-up menu

Set-up menu

In the set-up menu the following sub-menus are available:

- Picture orientation
- Language
- Quick key assignment
- ZAP keys assignment
- Accumulated lamptime

6.2.1 Picture orientation

Picture orientation

The picture orientation menu is used for rotating and mirroring the picture.

Normal
Normal is used when the projector is standing on a table projecting a picture on a screen.

Mirror
Mirror is used when the projector is projecting a picture from behind the screen

Rotate
Rotate is used when the projector is ceiling mounted and projecting an image from the front.

Rotate and mirror
Rotate and mirror is used when the projector is ceiling mounted and projects the picture from behind the screen.
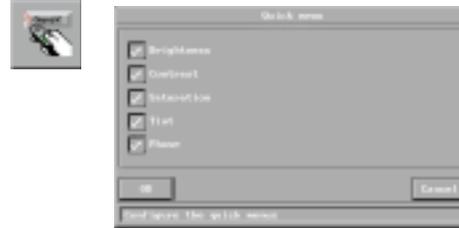
6.2.2 Language

Language selection

This menu allows you to choose between six different menu languages: English, French, German, Italian, Spanish and Norwegian. Click in the box next to the language you want to use. Click on the OK button. The window will disappear, and the selected language will be used in the main menu and in all other menus.

6.2.3 Quick menu

Quick menu settings

In the quick menu you can assign functionality for the quick key on the remote control. When clicking on the quick key you will be able to switch between all the functions you have selected in this menu. You adjust the bar by either pressing the pressure-sensing pad right or left or you may use one of the two zap keys on the remote control. To accept the adjustment, and terminate the quick menus click on the left mouse button. To get back to the original setup, click on the right mouse button. The next click on the quick key will accept the adjustment and activate the brightness function and a brightness bar will be shown at the bottom of the page. When you have gone through all assigned functions the menu will disappear.

6.2.4 Zap menu

Zap menu

The Zap menu is used to assign functions to the zap keys on the remote control. The menu consists of two columns of buttons where the left column assigns the functions to the left key and the right column assigns the functions to the right key.
Note:
Un-selecting all boxes for Zap 1 assigns the "Zap 1' button on the remote to Power-up the projector from stand-by mode.
Un-selecting all boxes for Zap 2 assigns the "Zap 2" button on the remote to function as the Power-down (stand-by) button.

Pointer
You can activate the pointer function in the projector. One click activates the pointer and the next click deactivates it.

Blank
Activates blank mode by pressing the Zap key. First click will activate Blank mode and second click will deactivate it.
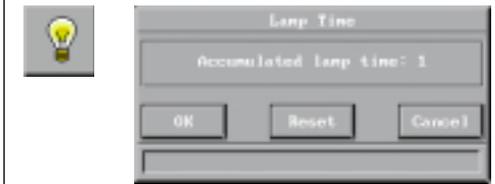
Computer
Selects Computer as the source.

Video
Selects video sources. Both Zap keys can be programmed to select Video.

6.2.5 Show accumulated lamp time

Show accumulated lamp time

In this window you can see the accumulated time that the lamp has been in use. You also use this window to reset the accumulated lamp time after the lamp has been replaced.

6.3 Control panel menu

Control panel menu when PC is selected

In the control panel you have access to menus for adjusting picture settings.
The icons "Picture positioning" and "Synchronization Adjustments" are only visible if PC source is active.

6.3.1 Picture control

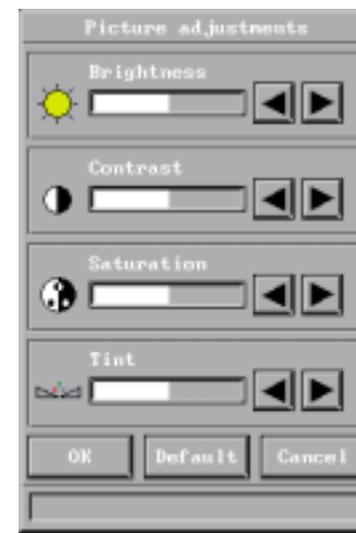Select the picture control menu for adjusting brightness, contrast, saturation and tint.

When PC is selected as source and auto contrast is marked, only brightness will be available.

When PAL/SECAM video is connected brightness, contrast and saturation will be available.
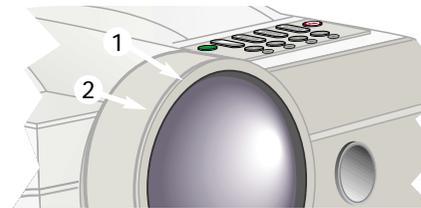

When PC is selected as source, only brightness and contrast will be available.

All options will be available when NTSC video is connected.

Select OK to save your changes and exit, or select Cancel to exit without saving your changes. Selecting Default restores factory settings.

6.3.2 Zoom/Focus adjustments

Zoom and focus adjustments

To adjust focus, turn the outer part of the lens (1). To adjust zoom, turn the inner part of the lens (2).
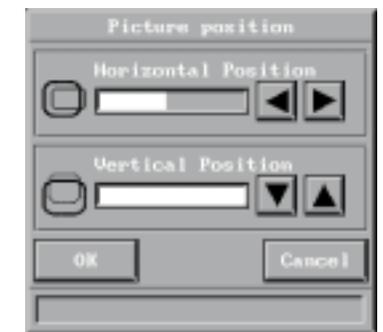
6.3.3 Color manager

Color tone settings

The color manager is designed to give you optimal performance from your projector, independent of ambient lighting conditions.

In the color manager menu you can choose between four pre-defined Color settings.

6.3.4 Picture positioning

Picture positioning

Adjust vertical and horizontal position of the picture on the screen with the two sliders. Select OK to save your changes and exit, or select Cancel to exit without saving your changes.

6.3.5 Synchronization Adjustments

Synchronization Adjustments

It is possible to adjust the synchronization in Computer mode by adjusting the Phase and the Frequency. The synchronization will be set by the automatic set-up function. Manual sync adjustments should typically not be required.

The setting will follow the source, which means that you can have different settings for video and computer. The pre-defined settings will also vary with the source.

7. Maintenance

All maintenance should be done by Zenith authorized service personnel. Contact Zenith at 1-888-865-3026 for service

8. What do I do if (Trouble shooting)

No image appears on the screen

Possible causes and remedies:

1. The projector is left in Standby mode. If the product is in standby mode, there will be a red light next to the stand-by button. Press the
stand-by button or the Menu key on the remote control.
2. The lamp does not function. Check the light on the control panel. If the light is orange, the lamp does not function. Call 1-888-865-3026..
3. The product is set in 'blank mode'. Press the zap keys on the remote control.
4. The brightness is turned on too low. Adjust brightness until a satisfactory image is achieved.
5. The power save or screen save on the PC is turned on. Disable the power save and screen save on the PC.
6. The image is displayed on the laptop screen and not the projector. Activate the external port on the laptop by pressing the required key combination on your computer.
7. The projector is not connected to electricity. Check that the power cable is connected to the projector and the wall outlet.

No source signal is detected (the Zenith logo appears)

Possible causes and remedies:

1. The computer has not been switched on. Turn on the computer.
2. The cables are not properly connected. Check all cable connections.

The image is not good (noise)

Possible causes and remedies:

1. The automatic image set-up is not activated. Run auto set-up by pressing the setup button on the touch panel or run auto set-up from the menu.
2. The synchronization on the PC is not set optimally.

There is poor response from the Remote Control

Possible causes and remedies:

1. Check that nothing is blocking the IR receiver at the front of the projector.
2. Make sure the remote control is pointed towards the screen.
3. Make sure there is no more than 33ft/10m in distance to the projector.
4. Batteries might be low. Change batteries in the remote control.
5. Electromagnetic or optic noise may influence the remote control.
Turn off sharp fluorescent lamps, mobile phones, etc that are near the projector.

No Image Appears

Possible causes and remedies:

1. The projector has not been switched on. Check the ON/OFF switch at the back.
2. For Notebooks: The external RGB port may need to be manually activated. Please consult the notebook-operating manual for how to operate.